

AMENDMENT TO THE CLAIMS

Claims 1-5 (Canceled)

6. (Currently Amended) A structure of heat transfer fin mounted within a heat exchanger that includes a plurality of heat transfer ~~coils~~ tubes penetrating through the heat transfer fin, wherein air is supplied orthogonally to said heat transfer ~~coils~~ tubes, and the heat transfer fin is partitioned in at least one fin unit in which arrays of slits are arranged in a row, the heat transfer fin being characterized in that the arrangement of the arrays of slits satisfies the following formula:

$$W_s \geq [1 - 0.1(6 - N)] \times W_f / (2N + 1)$$

Wherein W_s = width of one slit, W_f = width of a fin unit, and N = the number of slit arrays ~~or~~ the number of heat transfer fin units.

7. (Currently Amended) The heat exchanger of claim 6, wherein each heat transfer ~~coil~~ tube has a diameter of about 7mm.

8. (Currently Amended) A structure of heat transfer fin mounted within a heat exchanger that includes a plurality of heat transfer ~~coils~~ tubes penetrating through the heat transfer fin, wherein air is supplied orthogonally to said heat transfer ~~coils~~ tubes, and the heat transfer fin is partitioned in at least one fin unit in which arrays of slits are arranged in a row, the heat transfer fin being characterized in that the width of each slit is within a range of about 0.17 to 0.29 times the diameter of one heat transfer ~~coil~~ tube.

9. (Currently Amended) The heat exchanger of claim 8, wherein a diameter of one heat transfer ~~coil~~ tube is about 7mm.

10. (Currently Amended) A structure of heat transfer fin mounted within a heat exchanger that includes a plurality of heat transfer ~~coils~~ tubes penetrating through the heat transfer fin, wherein air is supplied orthogonally to said heat transfer ~~coils~~ tubes, and the heat transfer fin is partitioned in at least one fin unit in which arrays of slits are arranged in a row, the heat transfer fin being characterized in that the spacing between slits in each array is within a range of about 0.18 to 0.5 times the diameter of one heat transfer ~~coil~~ tube.

11. (Currently Amended) The heat exchanger of claim 10, wherein a diameter of one heat transfer ~~coil~~ tube is about 7mm.